Characteristics of micro-impurities.. \$/065/62/000/010/003/004 E075/E136

The inorganic part of the impurities in fuel TS-1 contained 13.7% of Fe after filtration through a filter with 7 micron pores. This indicated that Fe can be present in the fuels in a finely divided state. The second most abundant element in the impurities is Si. The organic part of the contaminants contained S and N, the latter being present only in the organic part, whereas some of the sulphur was present also in the inorganic part of the impurities. To avoid the contamination of the fuels it is advisable to carry out systematic removal of moisture, prevent the formation of high molecular weight resins and exclude metal containing compounds. There are 4 tables.

Card 2/2

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New additives to fuels and oils (survey). Khim. i tekh.topl.
i masel 7 no.3:64-66 Mr '62. (MIRA 15:2)
(Fuel)
(Lubrication and lubricants—Additives)

34**9**75 S/080/62/035/002/015/022 D258/D302

11.0132

AUTHORS:

Chertkov. Ya. R., Leont'yev, B. I., Shchagin, V. M.

and Sazonov, A. Ye.

TITLE:

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Electron microscope investigation of changes occurring during the heating of S-containing compounds dissolved in middle fractions of Volga-region petroleum fuels

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 2, 1962, 394-397

TEXT: The authors studied the formation of a solid phase as the result of heating middle cuts of petroleum fuels rich in organic S compounds. This was done to investigate the thermal stability of such fuels. Samples of a standard fuel TC-1 (TS-1) were desulphurized and then treated with the individual mercaptans, sulphides, disulphides, thiophanes and thiophenes, normally found in Volga-region fuels, and also with suphur-rich concentrates isolated from the latter. The compounds were added in quantities equivalent to up to 0.01% of mercaptanic S and up to 0.25% S for the rest. The solutions were examined under an electron microscope for the pre-

Card 1/2

S/080/62/035/002/015/022 D258/D302

Electron microscope investigation ...

sence of solid particles, before and after heating in an autoclave at 120, 150, 200 and 250°C. It was shown that all compounds yielded initially true solutions which formed colloidal systems on heating. Solid particles were formed next. The particle size was greatly increased by raising both temperature and S-concentration. The biggest aggregates were formed with sulphides (at 150 - 200°C), thicphanes (at 200°C) and disulphides (at 150 - 200°C), while solutions of thiophenes remained stable even after heating at 250°C. There are 1 table and 10 references: 7 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: E. M. Shelton, C. M. McKinney and O. C. Blade, Petrol. Refiner, 36, 257, (1957); R. B. Thompson, L. W. Druge and J. A. Chenicek, Ind. Eng. Ch., 41, 12, 2615 (1949); C. M. Barringer, M. W. Corsilius and J. D. Rogers, Petrol Processing, 12, 1909, (1955).

SUBMITTED: March 13, 1961

Card 2/2

S/080/62/035/002/016/022 D258/D302

AUTHORS: Savinov, B. G., Chertkov, Ya. B. and Klimenko, P. L.

TITLE: Study of the structure of nitrogen and oxygen-containing compounds in ligroin-kerosene petroleum frac-

tions by the method of infra-red spectra

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 2, 1962, 398-404

TEXT: The authors' aim was to study the little known structures of N- and O-containing constituents present in both straight distillates and cracking products of petroleum fuels. This was done in view of the relative ease of isolation and the possible economic value of these compounds. Kerosene fractions of T-1 and TC-1 (T-! and TS-1) fuels and cracking products of both high and low S-contents were passed through activated silica gel columns and the residual non-hydrocarbons were first eluted with alcohol benzene, then freed of S compounds and finally purified on activated alumina. A comparison of the infra-red spectra showed the presence of aromatic and heterocyclic structures in all samples. Oxygen was

Card 1/2

Study of the structure ...

S/080/62/035/002/016/022 D258/D302

shown to be present in the form of OH and C = 0 groups. There are 2 figures, 2 tables and 5 Soviet-bloc references.

SUBMITTED: February 23, 1961

Card 2/2

CHERTKOV, Ya.B.; SHISHKINA, M.V.; AFANAS'YEVA, N.A.

Hydroxyl-containing compounds in the middle distillate petroleum
fuels. Zhur.prikl.khim. 35 no.11:2460-2466 N 162. (MIRA 15:12)

(Petroleum ap fuel) (Hydroxyl group—Spectra)

AUTHOR: Chertkov, Ya. B.; Shchagin, V. M.; Zrelov, V. N.

TITIE: Effect of organosulfur compounds on the service properties of TS-1 fuel [Report presented at the Sixth Scientific Session on the Chemistry of Organosulfur Compounds of Crude Oil and Petroleum Products, held at Ufa, 27 June - 1 July 1961;

SOURCE: AN SSSR. Bashkirskiy filial. Khimiya seraorganicheskikh soyedineniy, soderzhashchikhsya v neftyakh i nefteproduktakh, v. 5, 1963, 149-159

TOPIC TAGS: TS-1, hydrofining, thiols, sulfides, disulfides, thiophanes, thiophenes, sulfur-containing concentrates, GOST 7149-54, bronze, corrosion, resinous deposit formation, sediment formation, di-o-tolyl disulfide

ABSTRACT: The effect of organosulfur compounds on the service properties of TS-1 fuels has been studied. The experiments were conducted at 120 to 250C with hydrofined thermally stable (up to 250C) TS-1 fuel to which 23 individual S compounds (thiols, sulfides, disulfides, thiophanes, and thiophenes) potentially present in nonhydrofined fuel were added in amounts permissible under the

Card 1/3

ACCESSION NR: AP3001313

GOST 7149-54 specifications for total S content; in some cases S-containing concentrates separated from TS-1 fuel were added. The experiments consisted of a determination of the corresion of and resingus-deposit formation on VB-23NTs bronze and a study of sediment formation. The following are the findings of the experiments: 1) The corrosive effect of organic sulfur compounds With the exc ption of di-o-tolyl disulfide) on bronze is low. 2) Sulfides, disulfides, and to a lesser degree thiols form considerable resinous deposits on the metal above 150C. 3) At 150 to 250C acyclic and cyclic sulfides, disulfides, and thiophanes form considerable amounts of fuel-insoluble sediments; the number and size of sediment particles increase with the temperature and concentration of S compounds. 4) Thiophene and its homologs do not impair fuel properties. 5) Experiments conducted with S concentrates showed that the effects of individual S compounds contained in standard fuels in the form of mixtures are equalized. 6) Below 1200 the properties of the fuels are not affected by the presence of S communds in amounts permissible under GOST specifications; at higher temperatures measures must be taken against the adverse effect of these compounds. 7) An electron-microscope study revealed that sediments are the result of a breakdown of colloidal systems formed in the presence of

Card 2/3

ACCESSION NR: AP3001313

organosulfur compounds with an increase of the particle size. Orig. art. has: 4 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 2814y63

ENCL: 00

SUB CODE: 00

NO REF BOY: 000

OTHER: 000

ph/مند/Cord 3/3

CHERTKOV, Ya.B.; MARINCHENKO, N.I.; ZRELOV, V.N.

Analyzing the microcontaminants and residues in middle distillate fuels. Nefteper. i neftekhim. no. 11:16-18 '63. (MIRA 17:5)

CHERTKOV, Ya.B.

Increasing the energy content of hydrocarbon fuels. Khim.i tekh.topl.i masel 8 no.2:63-67 F '63. (MIRA 16:10)

4

CHERTKOV, Ya.B.

Fuels for supersonic jet airplanes. Khim. i tekh. topl. i masel 8 no.5:68-71 My 163. (MIRA 16:8)

CHERTKOV, Ya.B.; RYBAKOV, K.V.; ZRELOV, V.N.; MARINCHENKO, N.I.; INOZEMTSEVA, M.N.

Formation of trace impurities in middle-distillate fuels. Zhur. prikl. khim. 36 no.8:1825-1833 Ag '63. (MIRA 16:11)

CHERTROV, Yakov Borisovich BABUSHKINA, S.I., ved. red.

[Nonhydrocarbon compounds in petroleum products]

[Nonhydrocarbon compounds in petroleum products]
Neuglevodorodnye soedineniia v nefteproduktakh. Moskva, Izd-vo "Khimiia," 1964. 226 p. (MIRA 17:7)

SHOR, G.S.; CHERTKOV, Ya.B.; GOL'DIN, G.S.

Characteristics of the oxidation product composition of

characteristics of the oxidation product composition of polymer distillate of the butane-butylene fraction. Zhur. prikl. khim. 37 no.9:2080-2082 S 164.

(MIRA 17:10)

SHOR, G.S.; CHERTKOV, Ya.B.; GOL'DIN, G.S.

Characteristics of oxygen compounds of light pyrolysis oil.

Zhur. prikl. khim. 37 no.12:2766-2768 D '64.

(MIRA 18:3)

CHERTKOV, Yakov Borisovich; BOL'SHAKOV, Gennadiy Fedorovich;
GULIN, Tevgeniy IT'ich; DAVYDOV, P.I., nauchn. red.;
SHEVTSOVA, E.M., ved. red.; YASHCHURZHINSKAYA, A.B.,
tekhn. red.

[Jet fuels] Topliva dlia reaktivnykh dvigatelei. Leningrad, Izd-vo "Nedra," 1964. 225 p. (MIRA 17:3)

s/0065/64/000/001/0051/0055

ACCESSION NR: AP4009786

AUTHORS: Marinchenko, N.I.; Chertkov, Ya. B.; Pishunov, V.A.

TITLE: Scale formation in turbojet engines

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 1, 1964, 51-55

TOPIC TAGS: jet chamber, scaling

ABSTRACT: Scale formation in jet engines was studied and the particular purpose of the present work is a study of some of these problems. Deposits were investigated which accumulated on the inproblems. Deposits were investigated which accumulated on the injection fuel nozzle and on the whirler of engine I after 100 hours operation on fuel TS-1; on the injection nozzle and walls of the heat pipe of the combustion chamber in engine II after 200 hours operation on fuel T-2; and on the heat pipe of the combustion chamber of engine III after 300 hours operation on fuel T-1. The engines were operated within their warranty period under same conceptions as in simplement. Temperature of fuel nozzles and whirlers ditions as in airplanes. Temperature of fuel nozzles and whirlers in working operations reached 250-3400 while the wall temperature

Card 1/2

ACCESSION NR: AP4009786

in the combustion chamber within the scaling zone did not exceed 250-400C; gas temperatures in front of the turbine were 500-720C. It was concluded that scaling in turbojet combustion chambers is formed in zones having inadequate temperature (250-400C) and too formed in zones having inadequate combustion. The scale was low oxygen concentration for adequate combustion. The scale was found to consist of multistage, consecutive, deep-destruction products of the organic molecule with considerable enrichment of carbon in the final product. The material carbonized because the deposit contained considerable quantities of sulfur,-oxygen- and nitrogen compounds. The deposit also consisted of oxidizable nitrogen compounds. The deposit also consisted of oxidizable nydrocarbons and nonhydrocarbon organic compounds with sulfur, oxygen and nitrogen contents. At temperatures of 200-400C in an oxygen environment, oxidizing processes transform nonhydrocarbon compounds into resins and ultimately into scale. Orig. art. has no figures, no formulas, 6 tables.

ASSOCIATION: None

SUBMITTED: 00

NO REF SOV: 006

ENOL: 00 OTHER: 001

Card 2/2

EWP(m)/EPF(c)/T 53666-65 UR/0318/65/000/003/002:/2007 ACCESSION NR: AP5009998 AUTHORS: Chertkov, Ya. B.; Englina, G. B. TITLE: Characteristics of resins in intermediate petroleum fuel distillates SOURCE: Neftepererabotka i neftekhimiya, no. 3, 1965, 24-27 TOPIC TAGS: resin, fuel oil, chromatography, condensation reaction / TS 1 fuel, T 1 fuel ABSTRACT: Resirs that accumulate in intermediate distillates of petroleum fuels are detrimental. The purity of the fuel is determined by the accumulation rate of exidation products that dissolve in the fuel, by the condensation of these products, by the formation of a colloidal system, and ty the a system with the procipitation of a resinous solid phase. processes the resinous compounds from the fuels T-1 and TS-1 were studies. characteristics of these fuels meet the standard GOST 10217-1 except to murcaptane in TS-1. Sulfur mercaptan in this fuel constitutes G. Co. Co. Co. the permissible amount. The resins were separated from the fuels chrometographic cally on activated silica gel, and were then analyzed. The propert es of the resins are tabulated. Oxidation and condensation of the investigator fuels Card 1/2

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ACCESSION NR: AP5009998

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yield both soluble and insoluble resins. The resins are organic compounds of sulfur, nitrogen, and oxygen. The content of sulfur, nitrogen, and oxygen was found to be much greater in the resins of TS-1 than of T-1. In general, the contents of these elements in the resins increase with condensation. The amount of insoluble resin was found to increase with mercaptan content. It was found that the introduction of solid resin into deresinated fuel, even if very stable, leads to marked secondary exidation, which in turn leads to the formation of soluble resins first and then insoluble resins in amounts several times the content in the original fuel. Orig. art, has: 4 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: OC

SUB CODE: FP, CC

NO REF SOV: COO

OTHER: 000

4.8X

L 34905-65 EWI(m)/EPF(p)/I Pr-4 WE

ACCESSION NR: AP5006663

8/0065/65/000/003/0055/0057

AUTHOR: Chertkov, Ya. B.; Englina, G. B.

TITIE: Composition and composition change of guns in middle boiling-range distillate [jet] fuels // Y

SOURCE: Chimiya i tekhnologiya masel, no. 3, 1965, 55-57

TOPIC TAGS: jet fuel gum, T-1 jet fuel, TS-1 jet fuel, conteminant, fuel

ABSTRACT: A study has been made of the character and kinetics of the phase composition of T-1 and TS-1 jet fuels at ambient temperatures. This work was done to determine the origin of minute amounts of nonmineral contaminants in jet fuels that form gums both at high and low temperatures. T-1 fuel from Azerbaydzhan crudes and TS-1 from Volga-region crudes, both middle boiling-range fractions, were used. Both fuels passed GOST 10227-62 specifications except for mercaptan sulfur in TS-1, which exceeded specifications by a factor of 8. The presence of excess sulfur made it possible to get some idea of the effect of sulfur compounds on gum formation (see Table 1 of the Enclosure). Dissolved gums were isolated quantitatively by silicaged chromatography and separated by fractional extraction with heptane, benezene, and methanol. It was found that the methanol- and benezene-soluble gum

Cord 1/2

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1808-66 EFT (m)/EFF(c)/T W	UR/0286/65/000/015/0067/0067	7
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14.55	elov, V. N.; Shchagin, V. H. W. Shchagin, V. H. Class 23, No. 173363	
ITHOR: Chertkov, 18. ib.; Zie	ELOV, V. H.; SHCHEREN, V. H.	
ITLE: Method of removing con	ntaminants from [jet] fuels. Class 23, No. 173363	
OURCE: Byulleten' izobreteni	iy i tovarnykh znakov, no. 15, 1965, 67	
OPIC TAGS: jet fuel, fuel ad	and the second s	
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ontaminants from [jet] fuels iveness of the filtration, and the fuel. The additive is	additive which coagulates the contaminants is add octadecylamidoxybutyric acid [sic].	ed H)

EWT(m)/EWP(j)/T WE/RM AP6006450 SOURCE CODE: UR/0065/66/000/002/0047/0049 18019-66 ACC NRI Chertkov, Ya. B.; Bol'shakov, G. F.; Glebovskaya, Ye. A.; Englina, G. B. B ORG: none TITLE: Structure of insoluble fraction of resins of medium boiling range petroleum [jet] ruels 11 55,44 SOURCE: Khimiya i tekhnologiya topliv i masel, no. 2, 1966, 47-49 TOPIC TAGS: jet fuel, fuel gumming property, fuel additive 11 ABSTRACT: A study has been made of gum formation in straight-run T type [T-1, TS-1, and T-2] [jet] fuels (GOST 10227-62). Resins soluble in the fuels were isolated by silica gel chromatography and divided into three fractions: heptane-, benzene-, and methanol-soluble fractions; in the absence of the heptene-soluble fraction, the other two were insoluble in the fuel. The resins were put back in various amounts into deresinified-fuel samples. Then the sample was stored for one year at room temperature with or without access of atmospheric oxygen, after which existent gums were determined gravimetrically and subjected to IR analysis. It was found that with increasing number of hetero atoms and functional groups in the resin molecule, resin solubility in the fuel decreased. With increasing amount of resins added to the fuel, gums increased. Obviously, the high-molecular-weight portion of the resins, particularly the fuel-insoluble resins, very strongly activated the formation of UDC: 001.5:665.521.3

L 18019-66

ACC NR: AP6006450

insoluble gums similar to them. The gums were formed by the reaction of compounds of various molecular weights via free oxygen- and sulfur-containing functional groups, and via certain unsaturated bonds in hydrocarbon radicals of hetero atom-containing compounds. When the fuel was in contact with oxygen, gums increased sharply, which confirms the oxidation-polymerization character of gum formation. Gum formation could be limited or prevented by additives. For example, in the presence of 0.005% of a mercaptobenzothiazole derivative [unspecified] in heptane-soluble resin-containing fuel stored for one year in the presence of atmospheric oxygen, the amount of gums formed was 1/5 of that formed in the absence of the additive. Orig. art. has: 1 figure.

SUB CODE: 21/ SUBM DATE: none/ ORIG REF: 001/ ATD PRESS: 42/2

Cord 2/2

EWT(n)/TDJ/WE L 22697-66 SOURCE CODE: UR/0318/66/000/001/0012/0014 ACC NR: AP6007938 Chertkov, Ya. B.; Spirkin, V. G.; Demishev, V. N. ORG: MINKhigP TITLE: High grade [jet] fuel fractions from Arlan crude oil SOURCE: Neftepererabotka i neftekhimiya, no. 1, 1966, 12-14 TOPIC TAGS: jet fuel, desulfurization, solvent extraction/TS-1 jet fuel, T-1 jet fuel Arlan crude oil ABSTRACT: Solvent extraction with 86 and 91% aqueous sulfuric acid solutions in 1/5 solvent/feed ratio at 15-20C and atmospheric pressure has been used to produce jet fuel components from the 150-325C sour crude-oil fraction from Arlan fields. It is noted that because Arlan crudes are sour, straight-run fuel fractions from such crudes do not meet GOST specifications as to sulfur level. The 150-325C fraction contained 1.57% total sulfur (traces, 0.0004%, of mercaptan sulfur) and 7.9% of silica-gelabsorbable resins. The idea of the solvent extraction method was to remove sulfur compounds—new raw materials for petrochemical usage—without decomposing them, while preserving the composition of the hydrocarbon portion. Sulfide concentrates containing 9.3-13.4% total sulfur were produced. After removal of sulfides the solvent was fully regenerated. From the desulfurized raffinate, straight atmospheric distillation followed by alkaline and water washes produced fractions which exceeded most require-665.63 - 4.(479.52)

ments of GOST 10227-62 specifications for TS-1 and T-1 fuels. Their viscosity characteristic was very favorable, which should ensure satisfactory atomization and good flow and antiwear properties. Anticarbon-forming and combustion properties were also expected to be good. Only the freezing point was unsatisfactory (minus 50C for also expected to be good. Only the freezing point was unsatisfactory (minus 50C for also expected to be good. Only the 150—280C fraction) so that the distiltletes are not suitable as commercial fuels but only as components of such. Their availability, however, increases potential reserves of motor and jet fuels in the [SM]

USSR. Orig. art. has: 1 table.

SUB CODE: 21/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 004/ ATD PRESS:42/6

L 45887-66 EWT(m)/EWP(j)/T WE/RM

ACC NR: AP6023962 (A)

SOURCE CODE: UR/0204/66/006/002/0309/034

AUTHOR: Chertkov, Ya. B.; Spirkin, V. G.; Demishev, V. N.

ORG: Moscow Institute of Petrochemical and Gas Industry im. Gubkin (Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti)

TITIE: Characteristics of stable sulfur compounds of middle fractions of Arlan petroleum /

SOURCE: Neftekhimiya, v. 6, no. 2, 1966, 309-311

TOPIC TAGS: organic sulfur compound, aromatic hydrocarbon, petroleum product

ABSTRACT: It had been shown earlier that when thiophene, its homologs, and benzothiophene derivatives, all belonging to the group of "rosidual" or "undeterminable" sulfur compounds (as opposed to mercaptans, sulfides, and disulfides), are introduced
into jet fuels, the properties of the latter are not lowered. In the present study,
sulfides were completely removed from the 150-325° fraction of high-sulfur Arlan petroleum by selective extraction with 86-91% sulfuric acid, and the sulfur content of
the fraction thus dropped from 1.57 to 0.5 wt. %. After the removal of sulfides, the
fraction displayed a high thermal-oxidative stability. The residual sulfur compounds
present in the fraction were then extracted with 92 and 93% sulfuric acid. These compounds, containing about 30% of the total sulfur originally present in the fraction,
had no negative effect on the thermal stability or corrosion activity of hydrocarbon

Card 1/2

UDC: 665.547.93 (470.52)

T 45887-66

ACC NR: AP6023962

fuels on heating to 150°. One-half of the residual sulfur compounds became sulfonated and were extracted with 92-93% H₂SO₀; the remaining ones did not undergo sulfonation. The sulfonated sulfur compounds were regenerated by hydrolytic cleavage. The ultimate composition of the compounds obtained consisted of a mixture of alkyl- and cycloalkyl aromatic derivatives of thiophene, in particular, benzothiophenes, with a small admixture of thiophene homologs. Orig. art. has: 1 figure and 1 table.

SUB CODE: 07,11/ SUEM DATE: 06Jul65/ ORIG REF: 005

Card 2/2 LC

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000308710018-3 AP6018625 RM/JW/WE AUTHOR: Chertkov, Ya. B.; Ignatov, V. M. (A) SOURCE CODE: ORG: UR/0065/66/000/006/0053/0056 none TITLE: Comparison of the effectiveness of jet-fuel additives . SOURCE: Khimiya i tekhnologiya topliv i masel, no. 6, 1966, 53-56 TOPIC TAGS: fuel additive, jet fuel, additive effectiveness B ABSTRACT: A study has been made of the effect on jet fuels of the following designated PODFA in the source; 3) FOA-2, made by Dupont; and 4) a Czi aliphatic experiments were conducted with TS-1 fuel containing about 0.13% total sulfur and amine with a tertiary carbon atom in the alkyl group, recommended by Esso. The experiments were conducted with TS-1 fuel containing about 0.13% total sulfur and with a biobly-hydrocenated fuel (3-4% aromatic experiments were conducted with TS-1 fuel containing about 0.13% total sulfur and hydrocarbons). This highly hydrogenated fuel (3—4% aromatic fuel was tested) with and without inabout V.VU34 mercaptan sulfur, and with a highly hydrogenated fuel (3-4% aroll dividual sulfur commounds of various tunes added in amounts nermitted by COST hydrocarbons). This highly hydrogenated fuel was tested with and without individual sulfur compounds of various types added in amounts permitted by GOST used: 1,3, or 4, 0.05%; 2, 0.01%. The following amounts of additives were fuels were heated with agitation at long and podfa inhibit initial used: 1,3, or 4, 0.05%; 2, 0.01%. The ruets were neated with agreetion at 150C for 6 hr in air. It was shown that: 1) Ionol and PODFA inhibit initial and the alignment of the final commonents. 2) POA-2 and the alignment inhibit initial 150C for 6 hr in air. It was shown that: 1) Ionol and PODFA inhibit initial oxidation of the fuel components; 2) FOA-2 and the aliphatic amine inhibit oxidation of aviators soluble oxugen commonned which would form insoluble. oxidation of the fuel components; 2) FOA-2 and the aliphatic amine inhibit oxidative condensation of existent soluble oxygen compounds which would form insoluble. Card

L 34117-66 EWT(m)/T WE ACC NR: AP6012847

SOURCE CODE: UR/0080/66/039/004/0906/0911

AUTHOR: Chertkov, Ya. B.; Englina, G. B.

ORG: none

TITLE: Phase transformations in resins of middle-distillate petroleum fuels

SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 4, 1966, 906-911

TOPIC TAGS: resin, fuel stability, petroleum fuel, FUEL PROPERTY

ABSTRACT: To determine whether the formation of resins (liquid and solid phases) takes place in fuels at low temperatures, the phase behavior was studied in fuels at 15-20C in connection with the accumulation and presence in these fuels of resins constituting the products of oxidation and condensation of organic impurities other than hydrocarbons and unstable hydrocarbons. Fuels T-1 (from Azerbaydzhan crudes) and T-1 (from Volga region crudes) were studied. The middle-distillate fuels were found to contain 3-7% of solid matter insoluble in the fuel. The resins soluble in the fuel undergo condensation at first, then form a phase which is insoluble in the fuel. The conversion rate depends on the conditions, i.e., duration of the process, effect of light, access of atmospheric oxygen,

Card 1/2

APPROVED FOR RELEASE: 06/19/2000 CIA

CIA-RDP86-00513R000308710018-3"

UDC: 662.68

L 34117-66 ACC NR: AP6012847

temperature, etc. The solid resinous phase even initiates the resinification of stable fuel from which resins had first been removed. The process of formation of secondary resins also goes through a stage where soluble resins are formed and condensed until they form a solid phase insoluble in the fuel. The more condensed the solid resinous phase, the stronger its influence on the resinification of the fuel. The formation of resins in the fuel may be represented by the following sequence: resins soluble in fuel -> condensation -> colloidal system -> suspension -> settling (partial separation) of solid phase insoluble in fuel. Orig. art. has: 10 figures and 1 table.

SUB CODE: 07 / SUBM DATE: 17Apr64

Card 2/2 polas

CHERTKOV, Ya.B.; ENGLINA, G.B.

Composition and nature of the transformation of the tar of intermediate distillation fuels. Khim. i tekh. topl. i masel 10 no.3:55-57 Mr '65. (MIRA 18:11)

CHERTKOV, Ya.V.; RYBAKOV, K.N.; ZÆLOV, V.N.; FOMISHENKO, B.A.

Efficiency of fuel storage filters. Transp. i khran. nefti no. 3:22-25 '63. (MIRA 17:7)

1. NII-25

TJP(C) EWT(m)/EPF(c)/T/EWP(t)/EWP(b) SOURCE CODE: UR/0204/65/005/005/0741/0746 L 8076-66 ACC NR: AP5026461

AUTHOR: Chertkov, Ya. V.; Spirkin, V. G.; Demishev

ORG: Moscow Institute for the Petrochemical and Gas Industry im. I. M. Gubkina (Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti)

TITLE: Use of sulfuric acid for extracting organic sulfur compounds from petroleum fractions

SOURCE: Nestekhimiya, v. 5, no. 5, 1985, 741-746

TOPIC TAGS: petroleum, petroleum refining, petroleum product, organic sulfur compound, solvent extraction

ABSTRACT: Optimum laboratory conditions were worked out for the selective extraction of sulfur compound from Arlansk petroleum fractions boiling in the 150-325 C range and containing 1.57 wt. % of sulfur. About 70% of the sulfur compounds were recovered without significantly changing their composition by extracting with aqueous sulfuric acid solutions. A two-stage treatment of the crude with 86% aqueous sulfuric acid at room temperature, atmospheric pressure, and extractant: crude ratio= 1:5 removed half of the initial sulfur compounds. Additional sulfur compounds were extracted with 91% aqueous sulfuric acid, extractant:crude =1:5.

Card 1/2

UDC:665. 547. 93;546. 226-325;542. 61

L 8076-66 ACC NR: AP5026461	$\mathcal O$			
The sulfur compounds and resins were almost completely removed from the extract by dilution, the resins were precipitated and the decanted solution was treated for two hours with fuller's earth. The sulfuric acid was regenerated. The isolated sulfur compounds, containing over 14 wt. % sulfur consisted almost entirely of sulfides. They can be readily vacuum or steam distilled; the distillates are colorless or yellowish transparent liquids. Orig. art. has: 2 tables, 2 figures and 1 equation				
SUB CODE:OC, GC/ SUBM DATE: 10Nov64/ ORIG REF: 017/	OTH REF: 006			

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TOPIC TAGS: automatic control, automatic control theory	automatic control design, automatic co	ntrol system,
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Card 2/2 /16		1	•

USSR/Automatics and telemechanics-electromagnetic amplifier

FD-2766

Card 1/1

CHERTKOV Z.1.

Pub. 10 - 11/11

Author

: Gusev, N. F.; Chertkov, Z. I. (Moscow)

CARLES CONTRACTOR OF THE PARTY OF THE PARTY

Title

: Condition for static stability of a hydraulic electromagnetic

amplifier

Periodical

: Avtom. i telem., 16, Sep-Oct 1955, 497-500

Abstract

: The authors consider the problem of the condition for static stability of a hydraulic electromagnetic amplifier which is employed for fast-acting tracking (servo) drives in throttle regulation. They obtain expressions for the hydraulic and electromagnetic moments which act during the process of operation of an amplifier, and determine the condition for the stability of operation of the amplifier. One reference: N. A. Lifshits, D. V. Spirin, A. V. Danilin, Teoriya i raschet elementov avtomaticheskikh

sistem [Theory and calculation of automatic system elements], 1939.

Institution

Submitted

: January 23, 1954

CHERTHOTA, AUTOUTHA ALEHGANDROTHA

PROIZVODITEL'HOST' TRUDA HA ZHELEZHODOROZHKOM TRANSFORTE SSSR (OPERATIONAL EFFICIENCY OF RATHROAD TRANSPORTATION IN THE USSR) MOSKVA, TRANSPORTEDAT, 1956. 65 P. TABLES. (FOPULYARNAYA BIBLIOTECHKA 10 EMONOMINE ZMELEZMOĐOROZ MOGO TRAMSFORTA.

CHERTHOVA, Antonina Aleksandrovna; PESKOVA, L.W., red.; BOHROVA, Ye.W., tekhn.red.

[Labor productivity in Soviet railroad transportation and ways of improving it] Proisvoditel'nost' truda na shelesnodoroshnom transporte SSSR i puti ee povysheniia. Moskva, Gos.transp.shel-dor. (MIRA 10:12) isd-vo, 1957. 143 p. (Labor productivity) (Railroads)

"APPROVED FOR RELEASE: 06/19/2000 CIA-R

CIA-RDP86-00513R000308710018-3

CHERTKOVA, Antonina Aleksandrovna; MASLOVA, N.S., kand. ekonom.nauk, otv. red.; KHOMYAKOV, A.T., red. izd-va; SIMKINA, G.S., tekhn. red.

[Production cost and means for its reduction in the machinery industry (practice of branches of the machinery industry)] Seindustry (practice of branches of the machinery industry)] Seperatory of the machinery industry) Separatory of the machinery industry of the machinery industry)] Seight of the machinery industry of the machinery of the machinery industry of the machinery industry of the machinery of the machinery

CHERTKOVA, A.K., inzh.

Prospects for guaranteeing the supply of magnetite for coal preparation. Obog.i brik.ugl. no.30:71-75 *63. (MIRA 17:4)

CHERTKOVA, A. N.

IMITRIYEVA, L. V. - laborant 1, KELLER, I. M. - kand. tekhn. nauk, SMOLYAKOVA, Z. A. inzh. CHERTKOVA. A. M. - laborant, TROILE, G. A. - laborant

Respublikanskiy nauchno-issledovatel'skiy institut mestnykh stroitel'nykh materialov (ROSHIDAS)

Razrabotka Metodiki Bybora Optimal'nogo Rezhima Sushkikirpicha

Page 103

so: Collection of Appointions of Scientific Research Work on Construction, completed in 1950, Moscow, 1951

Novaya menatoda tetrameres (Petreulrenes) pavon 's nov. subsen. nev. ... ot ravlir', "Morks en Helminthology" on the 75th Birthday of F. I. Skryabin, Izdat, Akad, Hauk, SSSR, 1953, nage 737
All-Haden Inst Helminthology im, Acad. K. I. Skryabin

CHERTECOVA, A.N., kand.biologicheskikh nauk

Designation of Heterakis and Dispharynx in domestic poultry.

Trudy VIGIS 7:60-62 *59. (MIRA 13:11)

(Poultry--Diseases and pests) (Nematoda)

PETROV, A.M.; CHERTKOVA, A.M.

Distinctive features of alveolar and monocellular echinococcus as revealed by larval and adult forms. Trudy VIGIS 7:129-139 (MIRA 13:11)

(Hydatids)

PETROV, A.M., prof., doktor veterinarnykh nauk; CHERTKOVA, A.N., kand. Michael kikh nauk

Investigation of the helminths of moles in the U. S. S. B.

Trudy VIGIS 6:167-176 '59.

(Worms, Intestinal and parasitic)

(Parasites—Moles (Animals))

CHERTKOVA, A.N., kend.biologicheskikh nauk Euryttema species in dometic ruminants of the U. S. S. R. Trudy VIGIS 6:183-186 '59. (MIRA 15:5) (Parasites—Sheep) (Kazakhstan—Eurytrema)

A new trematode Zalophotrema lubimovi nov. sp. from the liver of a sea lion. Trudy VIGIS 10:26-29 '63.

A new trematode, Euamphimerus azerbaijanica nov. sp. (Opisthorchidae), from the liver of a nuthatch. Ibid.:29-31 (MIRA 17:9)

PARKHOMENKO, G.I.; YARANTSEVA, Ye.P.; KATS, A.M.; Prinimala uchastiye CHERTKOVA, A.N.

Prescriptions at the drugstores of Moscow. Apt. delo 14 no. 4: 58-61 Jl-Ag *65 (MIRA 19:1)

1. Moskovskoje gorodskoje aptechnoje upravlenije. 2. Nauchnoissledovatel skaja aptechnoja stantsija Moskovskogo gorodskogo aptechnogo upravlenija (for Chertkova).

CHERTKOVA E. I.

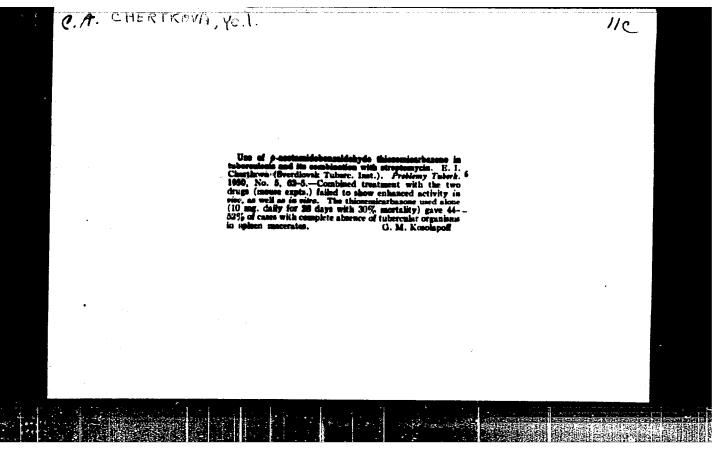
5880. CHERTROVA E. I. Action of streptomycin on the Koch bacillus Problemy Tuberk.

1949, 6 (50-53)

Bacteriostatic action was found at a concentration of 0.3 units/ml., bactericidal

Chamical Abstraction action with over 240 units/ml. Chemical Abstracts

SO: EXCERPTA MEDICA Section II Vol III No 10



CHERTKOVA, E. I., Dec Med Sci -- (diss) "Experimental studies on the chemotherapy of tuberculosis," Sverdlovsk, 1957. 21 pp (Len State Order of Lenin Inst for Advanced Training of Physicians im S. M. Kirov), 200 copies (KL, 1-58, 120)

- 83 -

CHERTKOVA E.I.

USSR/Pharmacology. Toxicology. Antitubercular Drugs U-8

_ Abs Jour : Ref Zhur-Biol., No 7, 1958, 33081

: Chertkova E. I. Author

Inst : Not given

: Test of Larusan in Experimental Tuberculosis, Title

and the Remote Results of the Therapy.

Orig Pub : V sb.: Klinika i terapiya tuberkuloza i organi-

zatsiya bor'by s nim. Sverdlovsk, 1957, 59-69

: More than 10 thousand plantings were made, and Abstract

962 mice, 247 guinea pigs, and 3 dogs were employed in the caurse of 4 years, in the study of the effect of larusan (1) on tubercular infections. 1 had a bacteriostatic effect in concentration

of 1:10 mln., and in combination with streptomy-cin or PASK in dilution of 1:30 mln. The bacteri-

cidal action of 1 in relation to tubercular

Card 1/2

CHERTKOVA, E.I.

Study of the effect of metazide under experiment conditions in tuberculosis. Khim. i med. no.14:45-49 160. (MIRA 14:12)

1. Sverdlovskiy institut tuberkuleza (dir. - prof. I.A.Shakleyn).
(TUBERCULOSIS) (METAZIDE)
(MYCOBACTERIUM TUBERCULOSIS)

NIRENBURG, V.L.; POSTOVSKIY, I.Ya.; CHFRTKOVA, E.I.

1-aryl-5-alkylmercatotetrazole and l-aryl-5-alkylsulfonyltetrazole and their antituberculosis activity. Izv.vys.ucheb.zav.; khim. i khim.tekh. 8 no.2:258-261 '65. (MIRA 18:8)

l. Ural'skiy politekhnicheskiy institut imeni Kirova i Sverdlovskiy nauchno-issledovatel'skiy institut tuberkulesa.

CHERTKOVA, E.I., kand. med. nauk; UDILOVA, N.N., kand. med. nauk

Role of pyridoxine in experimental chemotherapy of tuberculosis. Probl. tub. 42 no.10:65-68 '64. (MIRA 18:11)

1. Sverdlovskiy nauchno-issledovatel skiy institut tuberkuleza (direktor - prof. I.A. Shaklein) Ministerstva zdravookhraneniya RSFSR.

CHERTKOVA, F.A.

Central State Sci. Control Inst., (-1944-)

"Microflora of the wounds of wartime, after the date of the N....rear evacuation hospital, "

Zhur. Mikrobiol., Epidemiol., i Immunobiol., Nol 9, 1944

(F. A.)

Central State Sci. Control Inst., (-1944-)

"On the stability of the toxin of anaerobic bacilli in glycerine"

Zhur. Mikrobiol., Epidemiol., i Immunobiol., No. 9 1944.

pp 60-65

Determination of imminogenic properties of Type A botulinus anatoxins can be carried out by administration to gains pigs and then treating the animals run toxin. This method can be used in the case

of Type B anatoxins only when the guinea pigs

the antitoxin content found in the blood of

are suitable for hyperimmunization of horses. . .

gainea pigs immunized with anatoxin characterizes resistance to toxin, viz. the effectiveness of

the anatoxin. Quantitative data obtained by the

methods described indicate whether the anatoxing

CHETTLOVA, F. A.

USSR/Medicine - Botulinus Anatoxin

Feb 53

"Evaluation of the Immunogenic Activity of Botu-Flinus Anatoxins of Types A and B," F.A. Chertkova, CZ.F. Zubova, T.V. Shapovalova, State Control Inst of Sera and Vaccines imeni L.A. Tarasevich; Moscow Minst of Epidemiol and Microbiol imeni I. I. Mechnikov

"Zhur Mikrobiol, Epidemiol, i Immunobiol" No 2,

2461

CHERTKOVA, F.A.; SHAIN, Ye.S.; LEVCHENKO, L.A.

Effectiveness of combined vaccination against diphtheria and tetanus depending on preceding immunisation. Zhur.mikrobiol.epid. i immun. 27 no.4:49-55 Ap *55. (MIRA 9:7)

1. Is Gosudarstvermogo kontrol'nogo instituta vaktsin i syvorotok imeni Tarasevicha

(VACCINES AND VACCINATION

dephtheria combined with tetanus, eff. of preceding immun.)

(DIPHTHERIA, prev. & control

vacc., combined with tetanus, eff. of preceding immun.)

(TETABUS, prev. & control

vacc., combined with diphtheria, eff. of preceding imun.)

CHERTKOVA, F.A

CHERTKOVA, P.A.; DIDENKO, S.I.; USHAKOVA, A.A.

Anaphylactogenic properties of thrombin from horse plasma and native horse sera. Zhur.mikrobiol.epid. i immun. 28 no.8:107-110 Ag '57. (MIRA 11:2)

1. Iz Gosudarstvennogo kontrol'nogo instituta imeni Tarasevicha.

(ALLERGY, experimental,
anaphylactogenic eff. of thrombin from horse plasma & native serum (Rus))

(THROMBIN, effects,
same)

GRODYO, N.S.; CHERTKOYA F.A.

Method of control of immunogenic properties of anatoxins in mice. Zhur. mikrobiol. epid. i immun. 29 no.11:114-115 H 158. (MIRA 12:1)

1. Iz Gosudarstvennogo kontrol*nogo instituta imeni Tarasevicha.

(VACCIHES AND VACCIMATION,

control of immunogenic properties of anatoxina for

control of imminogenic properties of anatoxins for vacc. on mice (Rus))

17 (6, 12)

SOV/16-60-4-21/47

AUTHOR:

Grodko, N.S., Ushakova, A.A., Denisova, I.Ya., Kats, F.M.

C.V. and Dudarenko.

TITLE:

Standard Botulism Antiserum Type E

PERIODICAL:

Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1960, Nr 4,

pp 84 - 87 (USSR)

ABSTRACT:

The authors made a study of the standard botulism antiserum type E (batch 216/2) prepared at the Khar'kovskiy institut vaktsin i syvorotok imeni Mechnikova (Institute of Vaccine and Sera imeni Mechnikov, Khar'kov) and also of two other batches of antiserum - batch 205/1, also prepared by the same institute, and batch 16/3 prepared at the Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR (Institute of Epidemiology and Microbiology imeni Gamaleya of the AMN, USSR). A standard for the botulism antiserum type E was worked out and the size of one antitoxic unit (AU) set at 0.03 mg of dry substance. An experimental toxin dose was determined and titration of antisera was recommended at 1/10 of this experimental dose (L+/10). It was found that the experimental dose of the three batches of toxins prepared on different nutrient media contained

Card 1/2

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different amounts of MLD (minimum lethal dose). Two of the three toxin

Standard Botulism Antiserum Type E

SOV/16-60-4-21/47

samples studied were activated by trypsin which rather indicated nonspecific activation of one of the toxin batches during its preparation. There is 1 table and 11 references, 2 of which are Soviet, 7 English, 1 Italian and 1 French.

I Italian and I French

ASSOCIATION:

Gosudarstvennyy kontrol'nyy institut meditsinskikh biologicheskikh preparatov imeni Tarasevicha (State Control Institute for Medical Biological Preparations imeni Tarasevich); Khar'kovskiy institut vaktsin i syvorotok imeni Mechnikova (Institute of Vaccines and Sera imeni Mechnikov, Khar'kov)

SUBMITTED:

September 24, 1958

Card 2/2

BELEN'KAYA, G.M.; GLADSHTEYN, A.I.; LORAN, I.D.; CHERTKOVA, F.A.

Standardization of lydase — a Soviet preparation of testicular hyaluronidase. Lab. delo 8 no.4:28-32 Ap 162. (MIRA 15:5)

1. TSentral'nyy institut travmatologii i ortopedii (dir. - deystvitel'nyy chlen AMN SSSR prof. N.N.Priorov [deceased]) i Gosudarstvennyy kontrol'nyy institut meditsinskikh biologicheskikh preparatov imeni L.A.Tarasevicha (dir. L.S.Ogloblina).

(HYALURONIDASE)

CHERTKOVA, F.A.; USHAKOVA, A.A.; LUZINA, A.G.

Possibility of determining the reaction-producing qualities of whooping cough-diphtheria vaccine under experimental conditions.

Report No. 1. Zhur.mikrobiol.epid.i immun. 33 no.5:27-31 My '62.

(MIRA 15:8)

1. Iz Gosudarstvennogo kontrol'nogo instituta meditsinskikh biologicheskikh preparatov imeni Tarasevicha.
(WHOOPING COUGH—PREVENTIVE INOCULATION)

(DIPHTHERIA—PREVENTIVE ANOCULATION)

CHERTKOVA, F.A.; SOKOLOV, S.K.

Response to D.F. Pletsityi. Zhur. mikrobiol., epid. i immun. 33 no.11:97-100 N 162. (MIRA 17:1)

CHERTKOVA, F.A.; LORAN, I.D.

Control of the immunogenic properties of purified scriped stathylococcal enatorins in experiments on white mice. There mike bioloepid. i immun. 40 no.9:70-73 3:63. (NIE) 17,5)

1. Iz Gosudarstvennogo kontrolinogo instituta imeni Tarasevicha.

PONOMAREVA, Natal'ya Afanas'yevna; NECHAYEVA, Aleksandra Semenovna; CHERTKOVA, F.A., red.

[Gamma globulin] Gamma-globulin. Moskva, Meditsina, 1965.

[177 p. (MIRA 18:3)

L 63264-65 ENT(1)/ENA(J)/ENA(b)-2 UR/0016/65/000/00//0016/0020 ACCESSION NR: AP5017014 576.851.553.078.2 AUTHOR: Chertkova, F. A.; Svishcheva, N. D.; Pletneva, I. L. TITLE: Study of strains of Clostridium botulinum, types A, B, C, D, and E SOURCE: Thurnal mikrobiologii, epidemiologii i immunobiologii, no. 7, 1965, 16-20 TOPIC TAGS: Clostridium botulinum, toxin, microbiology, antigen, bacteriologic culture method ABSTRACT: The authors investigated 107 strains of the causative agent of botulism isolated during epidemics of the disease to determine the types involved. It was found that the type of toxic could be determined only by means of the toxic could Is partion result on by type-operations near. Peactions in pitch the operation egglutination, and omplement fixation--were useless for the pumper owers presence of common antigens in types A and F. The neutralization result will ed the strict specificity of the toxins of *ypes A, E, and E. Common tox. nents appeared only in the C and D types. Of the 107 strains studied, only 49 were typed: A--25, B--19, C--2, D--1, E--2. Fifty-eight strains lost their toxigenic Card 1/2

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ACCESSION NR: AP5017014

properties after prolonged storage. These properties could not be restored even after numerous passages on nutrient media. The presence of common non-toxigenic antigens in the A and B types was detected in a gel reaction. No correlation was observed between toxicity and number of precipitation lines in agar. Filtrates of the strains that lost their toxigenic properties retained their capacity to form precipitation lines. The precipitation reaction in gel showe! that the Large Large Col. botalinum possess common antigens. Common antigens were also found in the large large and D. Orig. art. has: 4 tables.

ASSOCIATION: Gosudarstvennyy kontrol'nyv institut im. Tarasevicha (State Control Instit<u>ute</u>)

SUBMITTED: 15Jan64

ENCL: 00

SUB 10DE: LS

NO REF SOV: 003

OTHER: 005

(Card 2/2

CHERTKOVA, F.A.; SVISHCHEVA, N.D.; PLETNEVA, I.L.

Study of the A,B,G, and D types of Clostricium betulimum strains. Zhur. mikrobiol., epid. i immum. 42 no.7:16-20 J1 '65.

(MIRA 18:11)

1. Gosudarstvennyy kentrol nyy institut imeni Tarasevicha.

CHERTKOVA, G.A.; USHAKOVA, A.A.; KOLCHURINA, A.A.

White mice as objects for the experimental determination of anaphylactogenic properties of therapeutic sera. Zhur.mikrobiol., epid.i immum. 30 no.12:33-36 D 59. (MIRA 13:5)

1. In Gosudarstvennogo kontrl'nogo instituta imeni Tarasevicha.

(INCUES SERUMS pharmacol.)

(ALLERGY)

CHERTKOVA, I.N., ispolnyayushchiy obyazannosti assistenta (Voronezh, Leningradsknya ul., 132, kv:15)

Silver impregnation using N.I.Odnoralov's method in macro and microscopic studies of the innervation of the serous membranes.

Arkh.anat.gist.i embr. 38 no.2:82-83 F '60. (MIRA 14:6)

1. Kafedra operativnoy khirurgii i topograficheskoy anatomii (zav. - prof. T.F.Lavrova) Voronezhskogo meditsinskogo instituta. (SEROUS MEMBRANES.—INNERVATION)

(STAINS AND STAINING (MICROSCOPY))

li

Country : USSR

Category: Cultivated Plants Potatoes. Vegetables. Melons.

Abs Jour: RZhBiol., No 11, 1958, No 48950

Author : Chertkova, M.A.

Inst : Yakutsk Sci. Res. Inst. of Agriculture

Title : On the Problem of Increasing the Yield and Frost

Resistance in Tomatoes by Means of Hardening.

Orig Pub: Byul. nauchno-telihn. inform. Yakutshogo n.-i. in-ta,

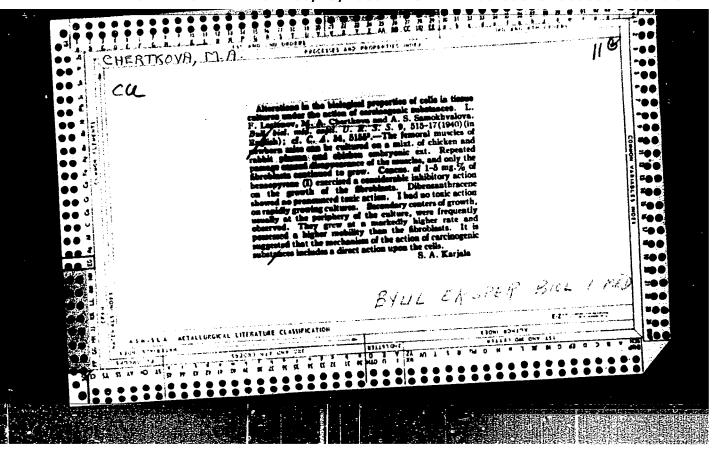
s.kh. 1957, 1. 9-11.

Abstract: The following experiment was carried out at the

Pokrovskoye Experimental Farm of the Yakutsk, Institute of Agriculture in 1956: Tomato seeds were scaked in warm water for 12 hours. The excess water was then removed, and the seeds were kept at

card : 1/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000308710018-3"



KASTORWAYA, M.A.; CHERTKOVA, M.A.

Pulmonary concentration of streptomycin following various methods of administration. Antibiotiki 1 no.3:26-27 My-Je 156. (MLRA 9:10)

1. L'vovskiy nauchno-issledovatel'skiy institut tuberkuleza. (LUNGS, metabolism, streptomycin, concentration in various modes of admin. (Rus)) (STREPTOMYCIE, metabolism, lungs, concentration in various modes of admin. (Rus))

Chentkova, M.A.

KENS, R.I., kand.med.nauk; CHERTKOVA, M.A., kand.med.nauk

Experience in using phthivasid in the form of suppositories in tuberculous meningitis [with summary in French]. Probletub. 34 no.5: 54-56 S-0 '56. (MIRA 10:11)

Country USSR Catogory Human and Animal Physiology, The Nervous System Abs. Jour. : Ref Zhur Biol, No. 2, 1959, No. 8494 Whenthove M.A. A Study of Higher Nervous Activity in Guinea Tuge RAGLEZA amositüt. Title Pigs with Experimental Tuberculosis. Orig Pub. :Zh. vyssh. nervn. deyat-sti, 1957, No. 2, 7, 285---290 abitrict Guinea pigs (29) in which a system of conditioned reflexes was established in response to sound and light (according to Kotlyarevskiy's method), were infected with tuberculosis. Three hours after they were infected, a predominance of the excitatory process was noted, after 1--15 days, a predominance of the inhibitory process, and toward the beginning of the second month after a transitional stage of "normalization" of conditioned reflexes, predominace of the excitatory process was again noted, followed by a wave-like extinction of conditioned reflexes, Card: 1/2

CHERTKOVA, M.A., kand.med.nauk

Some biochemical indicators in the cerebrospinal fluid of tuberculous maningitis patients. Pat., klin.i terap.tub. no.8:45-47 158. (MIRA 13:7)

l. Iz L'vovakogo nauchno-issledovatel'skogo instituta tuberkulesa.

(MENIEGES--TUBERCULOSIS) (CEREBROSPINAL FLUID)

CHERTKOVA, M.A.; KHARAKTER, Zh.Z.

Effect of glutamic acid on the amine acid structure of the blood serum in experimental tuberculosis. Vop. med. khim. 8 no.6:603-607 N-D '62. (MIRA 17:5)

l. Riokhimicheskaya laboratoriya L'vovskogo nauchno-isaledovatel'skogo instituta tuberkuleza.

CHERTKOVA, M.A.; KHOMA-LEMISHKO, A.M.

Content of nucleic acid in drug-sensitive and resistant mycobacteria. Zhur. mikrobiol., epid. i imman. 40 no.4: 31-35 Ap 163. (MIRA 17:5)

1. Iz L'vovskogo nauchno-issledovatel'skogo tuberkuleznogo instituta.

CHERTKOVA, N.L.

diathesis preliminary report. Pediatriia, no.6:56-57 H-D '55.

(MIRA 9:6)

1. Is Leningradskoy bol'nitsy imeni Pastera.

(HEMORRHAGIC DIATHESIS, in inf. and child cutaneous manifest., ther., oxygen)

(SKIM, in various dis. hemorrhagic diathesis in child., oxygen ther.)

(OXYGEN, ther. use skin manifest. of hemorrhagic diathesis in child.)

Oxygen treatment of skin diseases with manifestations of hemorrhagic

EWP(e)/EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(k) IJP(c) L 24801-66 AP6011344 SOURCE CODE: UR/0226/66/000/003/0007/0013 ACC NR AUTHOR: Tikhonov, G. F.; Pyryalov, L. A.; Chertok, M. M. B ORG: Gor'kiy Polytechnic Institute im. A. A. Zhdanov (Gor'kovskiy politekhnicheskiy institut) TITLE: Effect of spheroidization on the structure and properties of powder SOURCE: Poroshkovaya metallurgiya, no. 3, 1966, TOPIC TAGS: powder metallurgy, iron powder, stainless steel powder, steel microstructure, cold rolling, spheroidization ABSTRACT: The effects of spheroidization on the structure and properties of powders were studied using iron powder manufactured by the <u>Sulin Metallurgical Plant</u> and <u>1Kh17N2</u> <u>SIKh18N15</u> and <u>1Kh18N9T</u> stainless steel powders obtained by the simultaneous reduction method. To study the effect of spheroidization on the microcrystalline structure of powder, only the 0.200 + 0.160 mm fraction was tumbled. Prior to spheroidization it was annealed for 2 hours at 650C. As a result of tumbling the iron and stainless steel powders approximated the properties of powders of spheroidal particles. The retention of a spongy structure by the powder particles makes them a satisfactory material for rolling and pressing, as a result of which they can be recommended for the manufacture of spongy sintered materials for highly effective use as filters. Orig. art. has: 4 figures and 6 tables. SUB CODE: 11, 13, 20/ SUBM DATE: 200ct65/ ORIG REF: [AM] 006/ OTH REF: Card 1/1 C

ROYTMAN, Ye.A.; CHERTKOVA, M.R.

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1. Iz Dnepropetrovskoy dorozhnoy sanitarno-epidemiologicheskoy stantsii Stalinskoy zheleznoy dorogi.

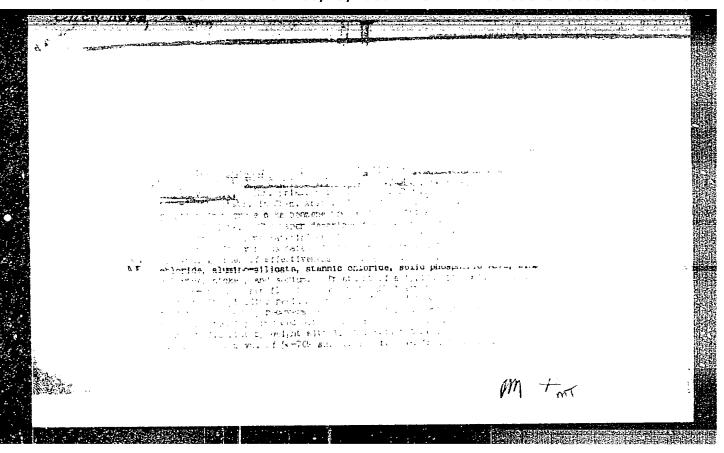
(RAILROADS—SANITATION)
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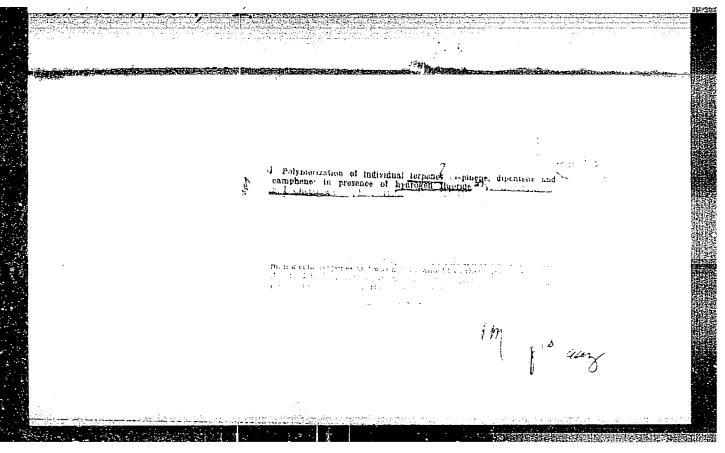
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       The effect of tuberculous infection on conditional reflexes and
      phosphorus metabolism of the brain. Probl. tub.34 no.1:33-38
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       1. Iz L'vovskogo nauchno-issledovatel'skogo instituta tuberkulesa
       (dir. G.I. Chemeris, nauchnyy rukovoditel'-prof. I.T. Stukalo)
              (TUBERCULOSIS, exper.
                  off. on conditional reflex & phosphorus metab. of brain)
              (REFIEX, CONDITIONED, eff. of exper. tuberc.)
              (PHOSPHORUS, metab.
                  of brain, eff. of exper. tuberc.)
              (BRAIN,
                  eff. of exper. tuberc.)
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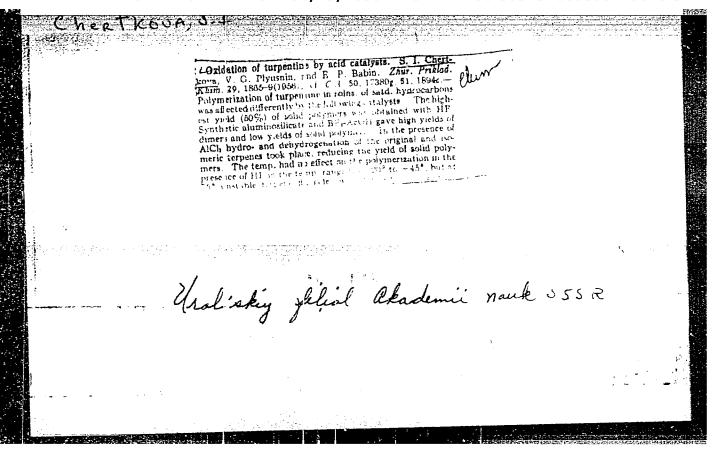
CHERTKOVA, S. I.

CHERTKOVA, S. I.: "Polymerization of the terpenes of turpentine and of cyclopentadiene of the 'benzene head' with hydrogen fluoride". Sverdlovsk. 1955.
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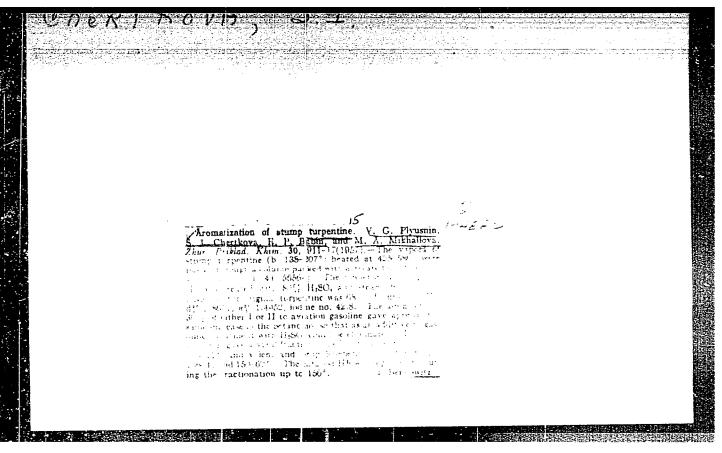




PLYUSNIN, V.G.; RABIN, Ye.P.; CHERTKOVA, S.I.

Hydrogen fluoride polymerization of unsaturated hydrocarbons in the products of the coke chemical industry. Zhur.prikl.khim. 29 no.7:1070-1078 J1 '57. (MIRA 10:10)

1.Ural'skiy filial AN SSSR. (Polymerization) (Cyclopentadiene) (Hydrofluoric acid)



PLYUSNIN, V.G.; BARIN, Ye.P.; CHERTKOVA, S.I.

Improved arrangement for hydregen fluoride polymerization of terpones free gum and stump turpentines, cyclapentatione of benzene heads and unsaturated competinds of crude benzene. Zhur. prikl. khim. 31 no.10:1592-1596 0 '58. (MIRA 12:1)

l.Ural'skiy filial AN SSSR.
(Polymerization) (Hydrecarbons) (Turpentine)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000308710018-3 CHERTKOVA, V.F.

USSR/Chemistry - Vulcanization

Gard 1/1 Pub. 22 - 20/40

Authors

: Kuz'minskiy, A. S., and Chertkova, V. F.

Title

大きな ないないからないないないないないないないないないできない あっちゃん : The role of oxygen during natural rubber vulcanization

Periodical : Dok. AN SSSR 99/2, 261-263, Nov 11, 1954

Abstract

Data regarding the role of oxygen during the vulcanization of natural rubber are presented. The oxygen destruction of the rubber in conditions of press vulcanization are found to be of no great importance. The dissolved oxygen participates in the oxidation of the rubber, but the vulcanization process continues at a decreasing rate. An approximate calculation showed that the oxygen consumption per one hour of vulcanization is twenty times lower than during the vulcanization in the open air and the number of destructions is reduced considerably. The effect of anti-oxidants (secondary aromatic amines) on the properties of the rubber, formed during vulcanization, is explained.

Eight USSR references (1946-1954). Table; graphs.

Institution:

Scientific Research Institute of the Rubber Industry

Presented by: Academician V. A. Kargin, June 10, 1954